

LIST OF CONTENTS

NUMBER 1-3

K. J. Bathe	A1	Preface
K. J. Bathe, H. Zhang and S. Ji	1	Finite element analysis of fluid flows fully coupled with structural interactions
W. I. Moore, E. S. Donovan and C. R. Powers	17	Thermal analysis of automotive lamps using the ADINA-F coupled specular radiation and natural convection model
K. J. Bathe, J. Walczak, O. Guillermin, P. A. Bouzinov and Heng-yee Chen	31	Advances in crush analysis
T. J. Ingham, S. Rodriguez, R. Donikian and J. Chan	49	Seismic analysis of bridges with pile foundations
T. A. Ballard and H. Sedarat	63	SR5 Lake Washington Ship Canal Bridge pushover analysis
D. D. Bogosian, B. W. Dunn and J. D. Chrostowski	81	Blast analysis of complex structures using physics-based fast-running models
S.-W. Chae and G.-M. Lee	93	Volume triangulation from planar cross sections
Y. Chen	109	Finite element analysis for walking vibration problems for composite precast building floors using ADINA: modeling, simulation, and comparison
Y. Chen	127	Distribution of vehicular loads on bridge girders by the FEA using ADINA: modeling, simulation, and comparison
A. N. Danilin, T. V. Grishanina, F. N. Shklyarchuk and D. V. Buzlaev	141	Dynamics of a space vehicle with elastic deploying tether
B. Gharabaghi, W. T. Dickinson, R. P. Rudra, W. J. Snodgrass and B. G. Krishnappan	149	Performance analysis of reinforced vegetative channel lining systems
M. Gierzyńska-Dolna and P. Lacki	165	The effect of hardening layers and technological lubricants on heat exchange between workpiece and die

A. D. Gupta	177	Evaluation of a fully assembled armored vehicle hull-turret model using computational and experimental modal analyses
C. Hohmann, K. Schiffner, K. Oerter and H. Reese	185	Contact analysis for drum brakes and disk brakes using ADINA
L. Huang, R. E. Mandeville and W. D. Rolph III	199	Magnetostatics and coupled structural finite element analysis
N. Jaksic and J. Simon-Weidner	209	Nonlinear global-local finite element analysis of a future plasma fusion experiment
A. Kozak, H. Sedarat and A. Krimotat	233	Alameda Tubes seismic retrofit studies
R. Kroyer	253	Wing mechanism analysis
S. Malla and M. Wieland	267	Analysis of an arch-gravity dam with a horizontal crack
R. M. Mutobe and T. R. Cooper	279	Nonlinear analysis of a large bridge with isolation bearings
A. Pudewills and M. Krauss	293	Implementation of a viscoplastic model for crushed salt in the ADINA program
M. Roshan Fekr, G. McClure and M. Farzaneh	301	Application of ADINA to stress analysis of an optical ground wire
I. Savage, J. C. Eddy and G. I. Orsolini	317	Seismic analysis and base isolation retrofit design of a steel truss vertical lift bridge
K. Schiffner and C. Droste gen. Helling	329	Simulation of residual stresses by shot peening
D. Tang, C. Yang, Y. Huang and D. N. Ku	341	Wall stress and strain analysis using a three-dimensional thick-wall model with fluid-structure interactions for blood flow in carotid arteries with stenoses
D. Tang, C. Yang and D. N. Ku	357	A 3-D thin-wall model with fluid-structure interactions for blood flow in carotid arteries with symmetric and asymmetric stenoses
J. W. Tedesco, J. M. Stallings and M. El-Mihilmy	379	Finite element method analysis of a concrete bridge repaired with fiber reinforced plastic laminates
N. Uddin	409	A dynamic analysis procedure for concrete-faced rockfill dams subjected to strong seismic excitation

X. Wang 423 Analytical and computational approaches for some fluid-structure interaction analyses

X. Wang, A. G. Giorges and C. Park 435 Simulation of a deformable ball passing through a step diffuser

I Calendar

NUMBER 4-5

457 Editorial

S. Holmberg, K. Persson and H. Petersson 459 Nonlinear mechanical behaviour and analysis of wood and fibre materials

S. Krenk, C. Vissing-Jørgensen and L. Thesbjerg 481 Efficient collapse analysis techniques for framed structures

L. Olovsson, L. Nilsson and K. Simonsson 497 An ALE formulation for the solution of two-dimensional metal cutting problems

R. Kouhia and M. Mikkola 509 Some aspects on efficient path-following

G. Sandberg and A. Olsson 525 Failure sensitivity analysis of engineering structures

L. A. Krog and N. Olhoff 535 Optimum topology and reinforcement design of disk and plate structures with multiple stiffness and eigenfrequency objectives

J. Paavola and E.-M. Salonen 565 Strain and stress analysis of a curved tapered beam model

A. Eriksson and C. Pacoste 579 Symbolic software tools in the development of finite elements

A. C. Damhaug, J. Reid and A. Bergseth 595 The impact of an efficient linear solver on finite element analyses

P. Kettil and N.-E. Wiberg 605 Adaptive FE-analysis of column supported Reissner-Mindlin plates

K. M. Mathisen, O. S. Hopperstad, K. M. Okstad and T. Berstad 627 Error estimation and adaptivity in explicit nonlinear finite element simulation of quasi-static problems

T. Kärnä, K. Kamesaki and H. Tsukuda 645 A numerical model for dynamic ice-structure interaction

**S. Remseth, B. J. Leira,
K. M. Okstad,
K. M. Mathisen and
T. Haukås**

659 Dynamic response and fluid/structure interaction of
submerged floating tunnels

I Calendar

NUMBER 6

W. M. Jenkins

687 A neural network for structural re-analysis

**G. M. Barsan and
C. G. Chiorean**

699 Computer program for large deflection elasto-plastic
analysis of semi-rigid steel frameworks

**S. M. Seraj, U. K. Roy and
M. N. Pavlović**

713 Semielliptical-shaped sewer linings under installation
conditions

S. K. Ahmad and S. Ahmad

735 Active control of non-linearly coupled TLP response
under wind and wave environments

**S. P. Chiew, C. K. Soh,
T. C. Fung and A. K. Soh**

749 Numerical study of multiplanar tubular DX-joints
subject to axial loads

**P. V. Raghuram and
A. V. Krishna Murty**

763 A high precision coupled bending-extension triangu-
lar finite element for laminated plates

F. Hafiani and J. F. Dwyer

779 Edge function analysis of anisotropic materials with
holes and cracks

I Calendar

